

IN THE CLAIMS

The following is a listing of the claims in the application with each of the claims shown as currently amended.

Listing Of Claims

1. (currently amended) A device for determining the wetting of a wall of an object (2) by a liquid, comprising ~~characterized in that it comprises: a capacity an enclosure (4) for enclosing a defined volume of said the liquid; a~~ with said control object (2) being immersed in the liquid within the enclosure of the wall placed in the capacity; an emitter and a receiver (15, 16) of ultrasonic waves, and two waveguides (5, 6) extending within the enclosure with passing through the capacity, ~~located in extension,~~ the emitter and receiver being respectively mounted on ends of the waveguides external of the enclosure and with ~~extending out of the capacity,~~ and the object (2) being placed between the waveguides; ~~the object (2) and having a thickness~~ selected for favouring the passing of waves from the emitter through the control object.

2. (currently amended) A device for determining the wetting of a wall of a target by a liquid, comprising ~~characterized in that it comprises:~~ an enclosure a ~~capacity~~ (4) for enclosing a defined volume of said the liquid; a ~~with said control object (2) being immersed in the liquid within the enclosure of the wall placed in the capacity;~~ an emitter and a receiver of ultrasonic waves; and two waveguides ~~passing through the capacity,~~ located side-by-side within the enclosure with ,the emitter and the receiver being respectively mounted on ends of the waveguides external of the enclosure and with ~~extending out of the capacity,~~ and the object (2) being placed in front of the waveguides, the object having a front surface with a geometry selected for favouring reflections of the waves between the waveguides.

3.(currently amended) The device according to claim 1, further comprising characterized in that the capacity (4) is equipped with heating means for heating the liquid within the enclosure and the waveguides with cooling means located external of the enclosure for cooling the waveguides outside the capacity.

4.(currently amended) The device according to claim 2, further comprising characterized in that the capacity (4) is equipped with heating means for heating the liquid within the enclosure and the waveguides with cooling means located external of the enclosure for cooling the waveguides outside the capacity.

5. (currently amended) The device according to claim 3, characterized in that the cooling means consists of a case surrounding each of the waveguides between the enclosure capacity and either the emitter or the receiver.

6. (currently amended) The device according to claim 4, characterized in that the cooling means consists of a case surrounding each of the waveguides between the enclosure capacity and either the emitter or the receiver.

7. (currently amended) The device according to claim 1, characterized in that the waveguide is covered with a coating which favors wetting of the liquid in the enclosure capacity.

8. (currently amended) The device according to claim 2, characterized in that the waveguide is covered with a coating which favors wetting of the liquid in the enclosure capacity.

9. (currently amended) The device according to claim 3, characterized in that the waveguide is covered with a coating which favors wetting of the liquid in the enclosure capacity.

10. (currently amended) The device according to claim 4, characterized in that the waveguide is covered with a coating which favors wetting of the liquid in the enclosure capacity.

11. (currently amended) The device according to claim 1, wherein the device further comprises a sealing for the enclosure capacity and a heat insulation system around the waveguides.

12. (currently amended) The device according to claim 2, wherein the device further comprises a sealing for the enclosure capacity and a heat insulation system around the waveguides.

13. (currently amended) The device according to claim 3, wherein the device further comprises a sealing for the enclosure capacity and a heat insulation system around the waveguides.

14. (currently amended) The device according to claim 5, wherein the device further comprises a sealing for the enclosure capacity and a heat insulation system around the waveguides.

15. (currently amended) The device according to claim 5, characterized in that the sealing system comprises a flange positioned around a section of the waveguides and joined to a bracket or a sleeve connected attached to the enclosure

~~capacity, or to the capacity itself~~; and the heat insulation system comprises a sleeve or insulating bellows extending between the flange and the cooling case.

16. (currently amended) The device according to claim 7, characterized in that the sealing system comprises a flange positioned around a section of the waveguides and joined to a bracket or a sleeve connected ~~attached~~ to the enclosure ~~capacity, or to the capacity itself~~; and the heat insulation system comprises a sleeve or insulating bellows extending between the flange and the cooling case.

17. (currently amended) The device according to claim 11, characterized in that the sealing system comprises a flange positioned around a section of the waveguides and joined to a bracket or a sleeve connected ~~attached~~ to the enclosure ~~capacity, or to the capacity itself~~; and the heat insulation system comprises a sleeve or insulating bellows extending between the flange and the cooling case.